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 Data File : BP009542.D
 Acq On : 24 Mar 2022 22:23
 Operator : CG/JU
 Sample : N1960-15DL 20X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

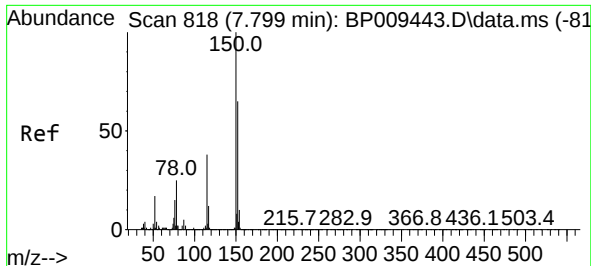
Instrument :
 BNA_P
 ClientSampleId :
 SB-13-20220316-16.0-17.0DL

Quant Time: Mar 25 03:16:52 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 24 01:19:11 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	277225	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	1129597	20.000	ng	-0.02
39) Acenaphthene-d10	14.416	164	717474	20.000	ng	-0.02
64) Phenanthrene-d10	17.181	188	1500880	20.000	ng	-0.02
76) Chrysene-d12	21.292	240	1601096	20.000	ng	-0.02
86) Perylene-d12	23.686	264	1765228	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	81025	5.103	ng	-0.01
7) Phenol-d6	6.975	99	94109	4.383	ng	0.00
23) Nitrobenzene-d5	8.940	82	59327	2.791	ng	0.00
42) 2,4,6-Tribromophenol	15.922	330	42558	3.595	ng	-0.01
45) 2-Fluorobiphenyl	13.040	172	153386	2.964	ng	-0.02
79) Terphenyl-d14	19.757	244	250911	2.813	ng	-0.02
Target Compounds						Qvalue
9) Benzaldehyde	6.928	77	3205	Below Cal	#	1
18) Hexachloroethane	8.881	117	15407	2.104	ng	# 1
31) Naphthalene	10.616	128	2414481	41.496	ng	100
33) 4-Chloroaniline	10.610	127	312586	13.165	ng	# 34
37) 2-Methylnaphthalene	12.234	142	1346331	32.978	ng	100
38) 1-Methylnaphthalene	12.451	142	1186564	29.835	ng	99
41) Hexachlorocyclopentadiene	12.687	237	20	7.290	ng	85
49) Acenaphthylene	14.134	152	233031	3.582	ng	# 92
52) Acenaphthene	14.481	154	864120	22.237	ng	100
54) 2,4-Dinitrophenol	14.534	184	118	4.548	ng	# 1
58) Fluorene	15.469	166	506844	9.872	ng	99
71) Phenanthrene	17.222	178	2894395	36.026	ng	100
72) Anthracene	17.316	178	803979	10.135	ng	100
75) Fluoranthene	19.204	202	1324838	13.621	ng	98
78) Pyrene	19.557	202	2179182	20.655	ng	99
81) Benzo(a)anthracene	21.327	228	659182	6.267	ng	94
83) Chrysene	21.327	228	659182	6.618	ng	97
87) Indeno(1,2,3-cd)pyrene	26.174	276	330893	2.471	ng	# 94
88) Benzo(b)fluoranthene	22.963	252	823896	7.818	ng	99
89) Benzo(k)fluoranthene	22.963	252	823896	7.985	ng	99
90) Benzo(a)pyrene	23.580	252	748673	8.304	ng	98
92) Benzo(g,h,i)perylene	26.927	276	382222	3.481	ng	94

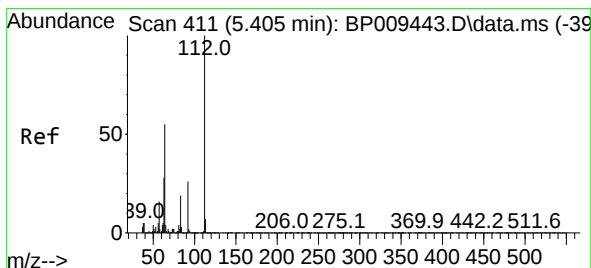
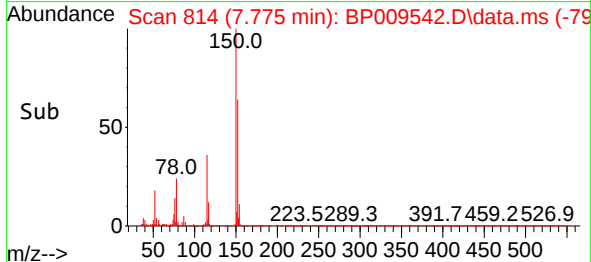
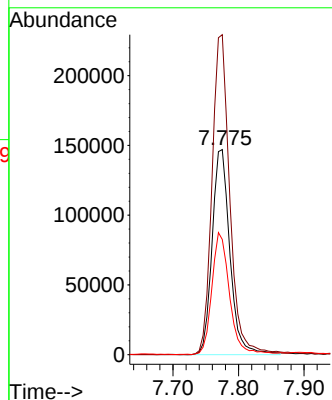
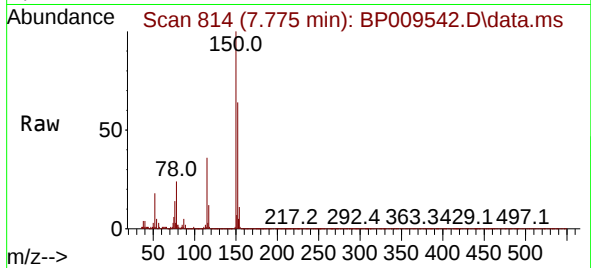
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.775 min Scan# 81
Delta R.T. -0.012 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

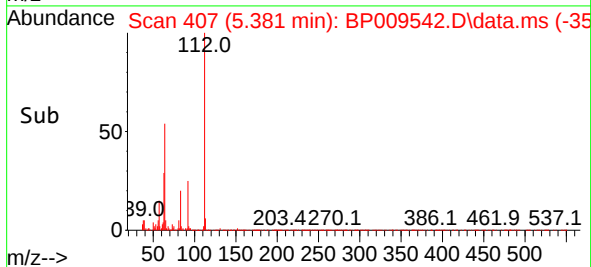
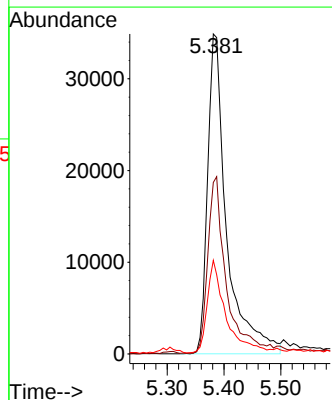
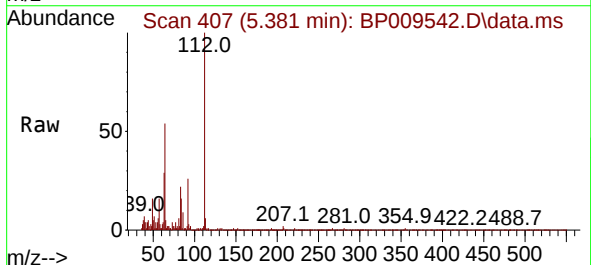
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BNA_P
ClientSampleId :
SB-13-20220316-16.0-17.0DL

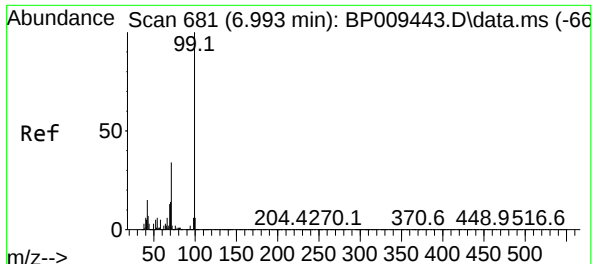
Tgt Ion:152 Resp: 277225
Ion Ratio Lower Upper
152 100
150 156.0 124.5 186.7
115 56.1 48.2 72.4



#5
2-Fluorophenol
Concen: 5.103 ng
RT: 5.381 min Scan# 407
Delta R.T. -0.012 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

Tgt Ion:112 Resp: 81025
Ion Ratio Lower Upper
112 100
64 53.6 45.0 67.4
63 29.2 23.0 34.6

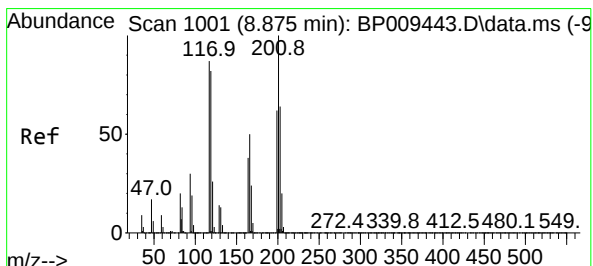
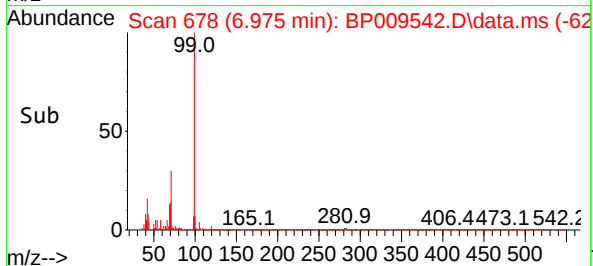
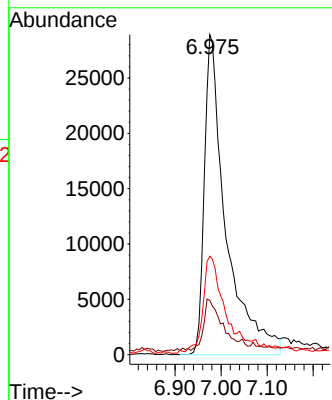
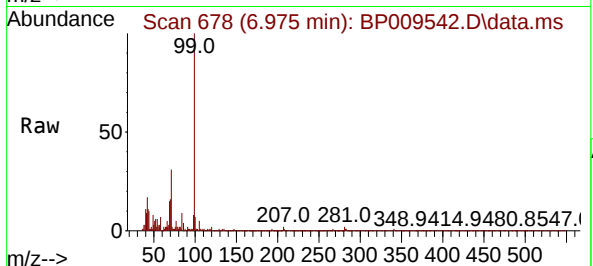




#7
Phenol-d6
Concen: 4.383 ng
RT: 6.975 min Scan# 61
Delta R.T. -0.006 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

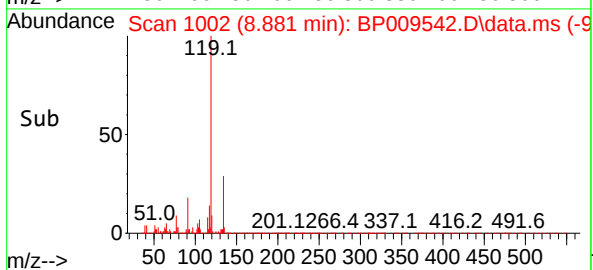
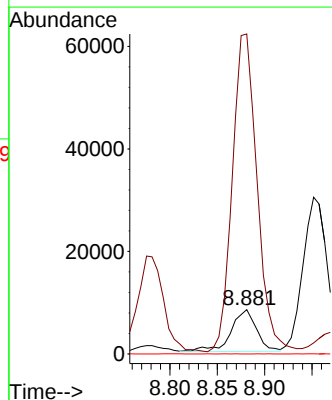
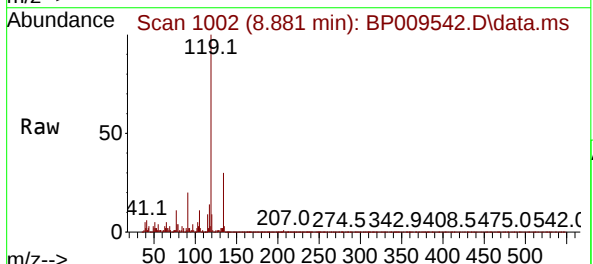
Instrument :
BNA_P
ClientSampleId :
SB-13-20220316-16.0-17.0DL

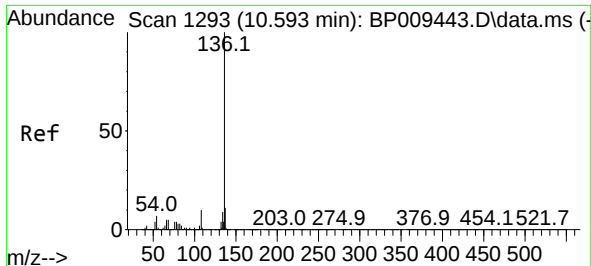
Tgt Ion: 99 Resp: 94109
Ion Ratio Lower Upper
99 100
42 17.0 12.8 19.2
71 30.8 26.3 39.5



#18
Hexachloroethane
Concen: 2.104 ng
RT: 8.881 min Scan# 1002
Delta R.T. 0.018 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

Tgt Ion: 117 Resp: 15407
Ion Ratio Lower Upper
117 100
119 720.9 76.4 114.6#
201 0.2 83.4 125.2#



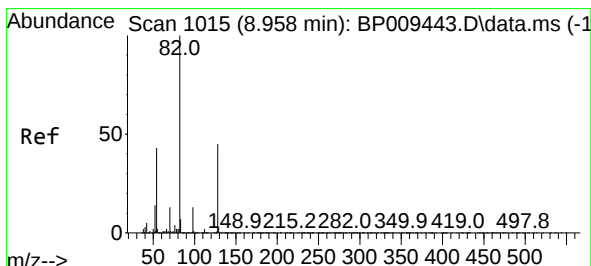
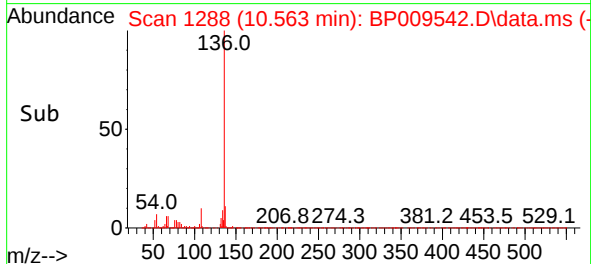
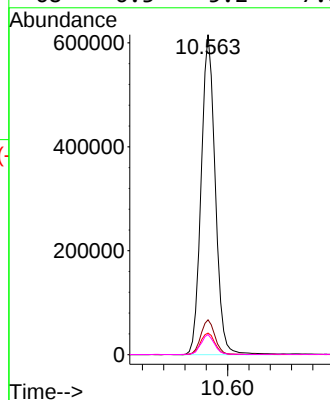
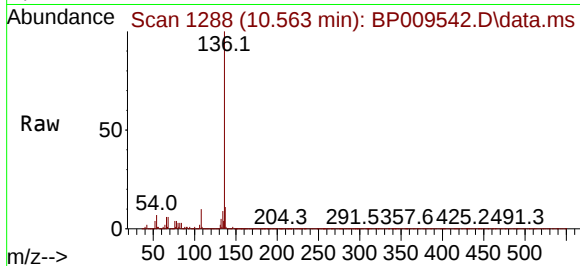


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 11
Delta R.T. -0.017 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

Instrument :
BNA_P
ClientSampleId :
SB-13-20220316-16.0-17.0DL

Tgt Ion:136 Resp: 1129597

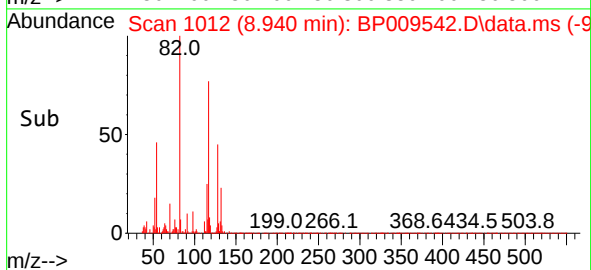
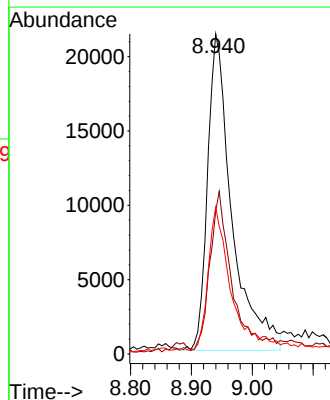
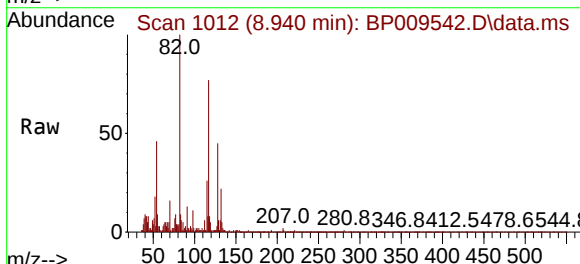
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	6.7	5.8	8.8
68	6.3	5.2	7.8

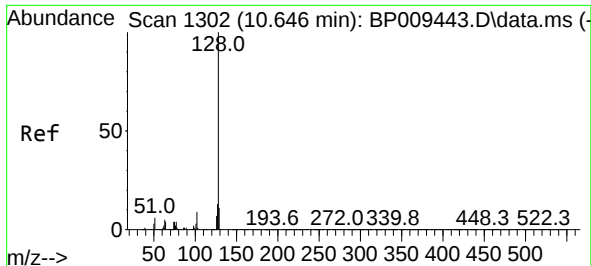


#23
Nitrobenzene-d5
Concen: 2.791 ng
RT: 8.940 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

Tgt Ion: 82 Resp: 59327

Ion	Ratio	Lower	Upper
82	100		
128	44.7	34.2	51.4
54	45.9	34.7	52.1

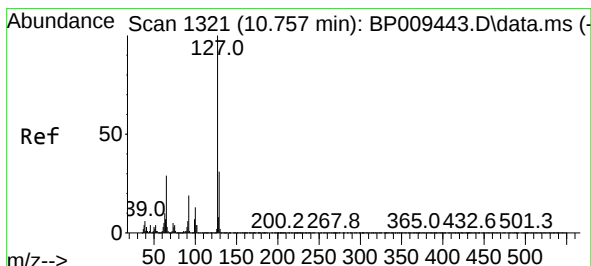
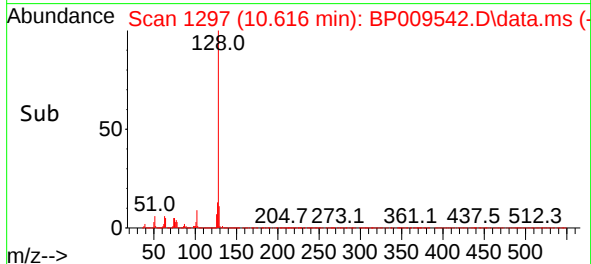
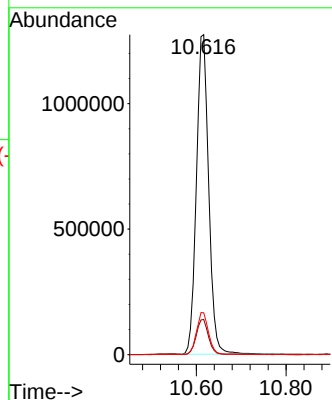
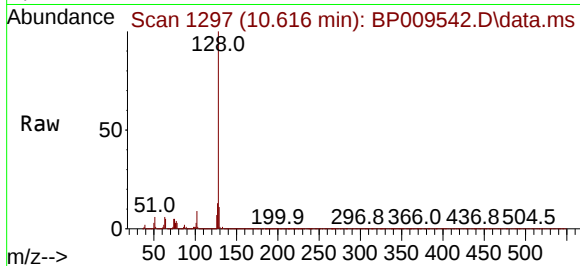




#31
Naphthalene
Concen: 41.496 ng
RT: 10.616 min Scan# 1297
Delta R.T. -0.017 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

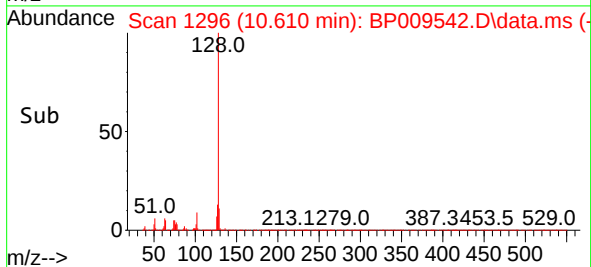
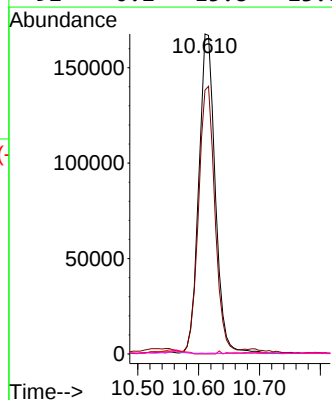
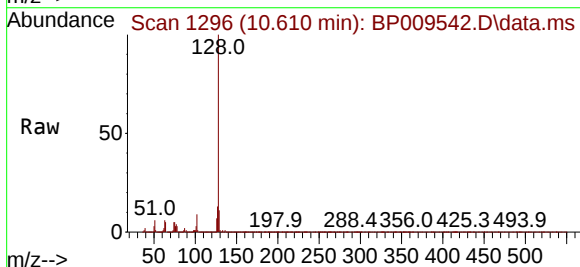
Instrument :
BNA_P
ClientSampleId :
SB-13-20220316-16.0-17.0DL

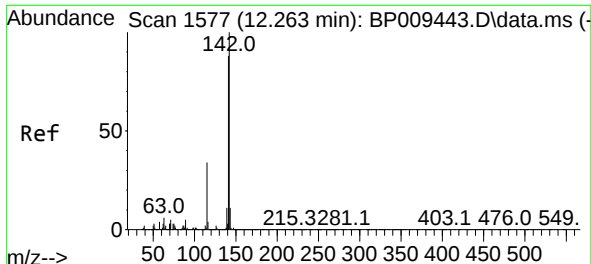
Tgt Ion:128 Resp: 2414481
Ion Ratio Lower Upper
128 100
129 11.0 8.6 13.0
127 13.1 10.5 15.7



#33
4-Chloroaniline
Concen: 13.165 ng
RT: 10.610 min Scan# 1296
Delta R.T. -0.135 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

Tgt Ion:127 Resp: 312586
Ion Ratio Lower Upper
127 100
129 82.4 25.5 38.3#
65 0.0 24.3 36.5#
92 0.2 15.8 23.8#

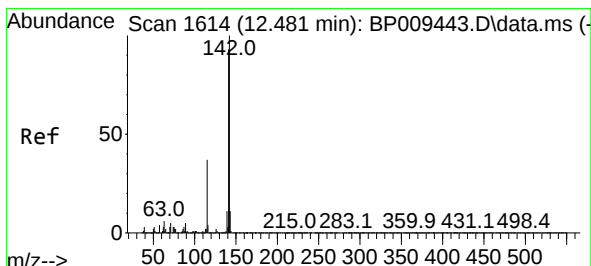
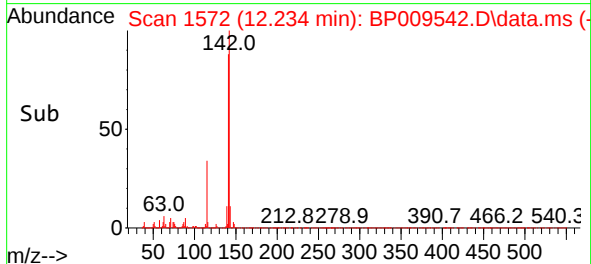
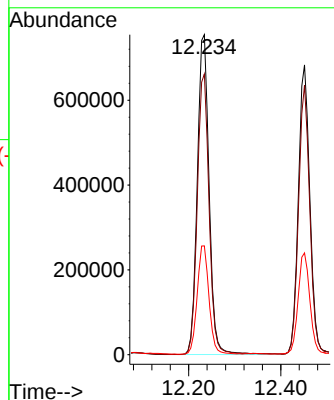
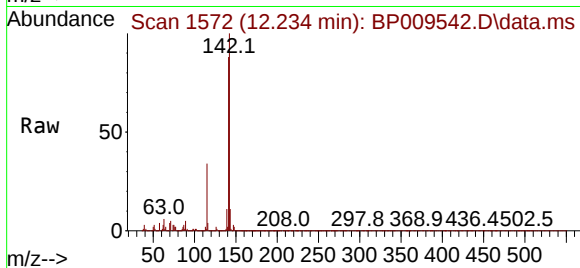




#37
2-Methylnaphthalene
Concen: 32.978 ng
RT: 12.234 min Scan# 11
Delta R.T. -0.017 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

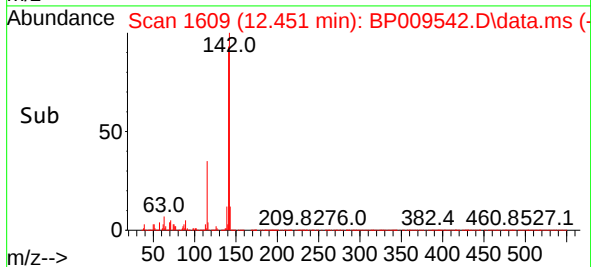
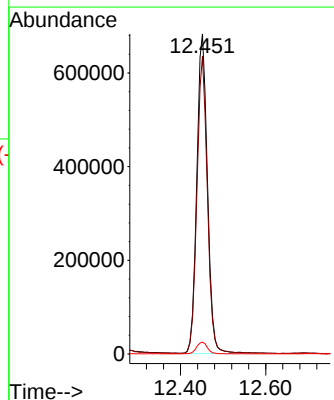
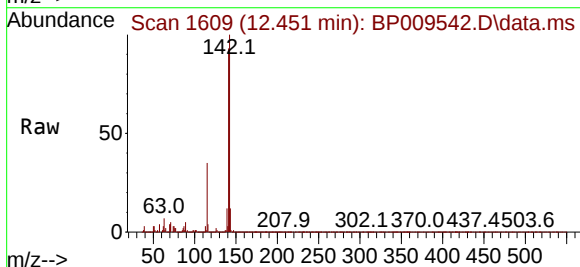
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ClientSampleId :
SB-13-20220316-16.0-17.0DL

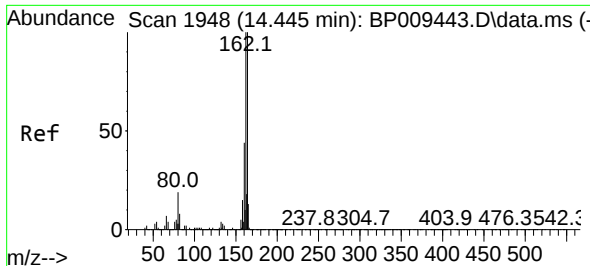
Tgt Ion:142 Resp: 1346331
Ion Ratio Lower Upper
142 100
141 87.7 70.2 105.4
115 34.0 27.4 41.2



#38
1-Methylnaphthalene
Concen: 29.835 ng
RT: 12.451 min Scan# 1609
Delta R.T. -0.017 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

Tgt Ion:142 Resp: 1186564
Ion Ratio Lower Upper
142 100
141 93.0 73.5 110.3
116 3.7 3.3 4.9

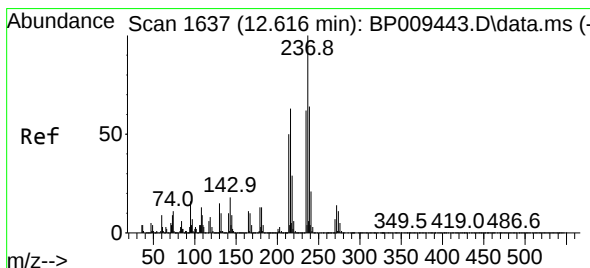
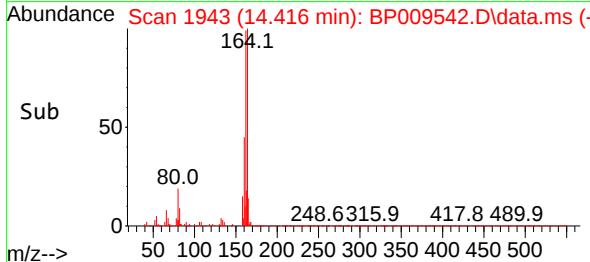
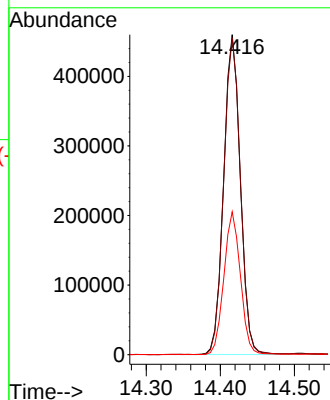
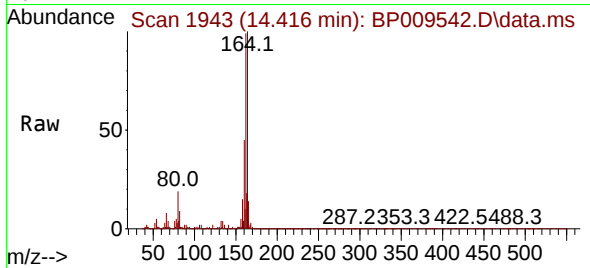




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. -0.017 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

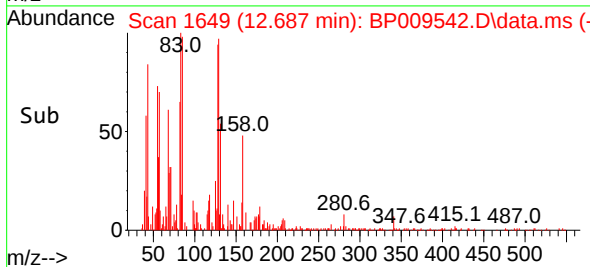
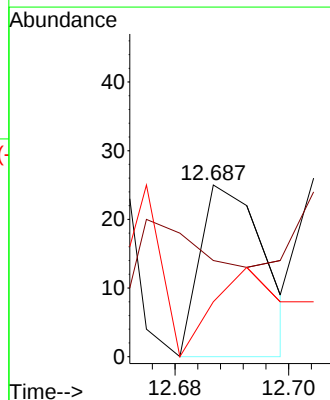
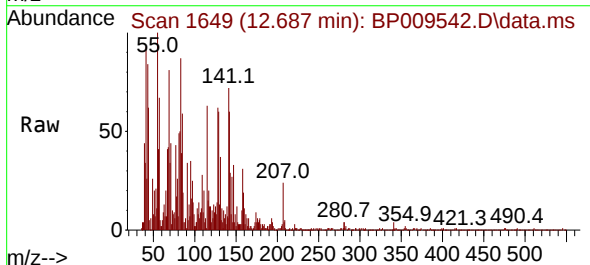
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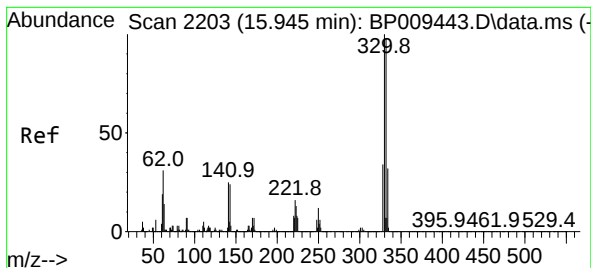
Tgt Ion:164 Resp: 717474
Ion Ratio Lower Upper
164 100
162 99.1 79.1 118.7
160 44.6 34.9 52.3



#41
Hexachlorocyclopentadiene
Concen: 7.290 ng
RT: 12.687 min Scan# 1649
Delta R.T. 0.083 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

Tgt Ion:237 Resp: 20
Ion Ratio Lower Upper
237 100
235 56.0 42.6 82.6
272 32.0 0.0 32.8





#42

2,4,6-Tribromophenol

Concen: 3.595 ng

RT: 15.922 min Scan# 2199

Delta R.T. -0.012 min

Lab File: BP009542.D

Acq: 24 Mar 2022 22:23

Instrument :

BNA_P

ClientSampleId :

SB-13-20220316-16.0-17.0DL

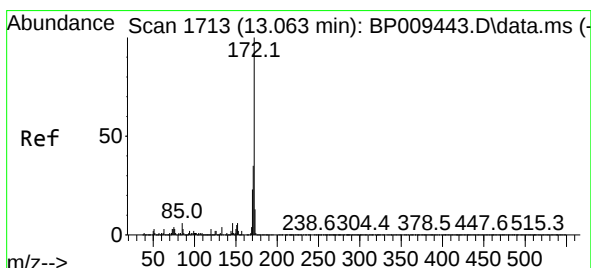
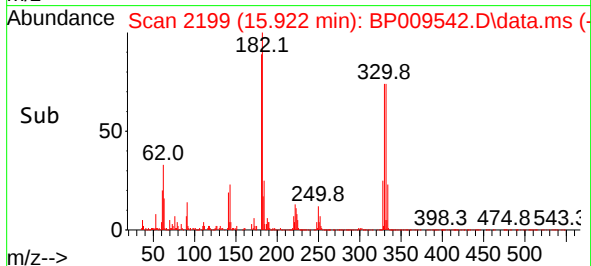
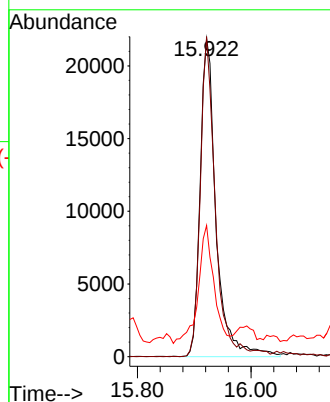
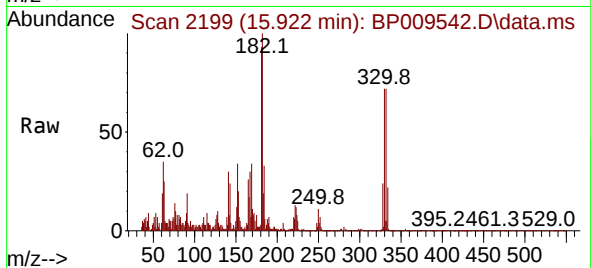
Tgt Ion:330 Resp: 42558

Ion Ratio Lower Upper

330 100

332 93.7 77.0 115.6

141 36.3 27.6 41.4



#45

2-Fluorobiphenyl

Concen: 2.964 ng

RT: 13.040 min Scan# 1709

Delta R.T. -0.017 min

Lab File: BP009542.D

Acq: 24 Mar 2022 22:23

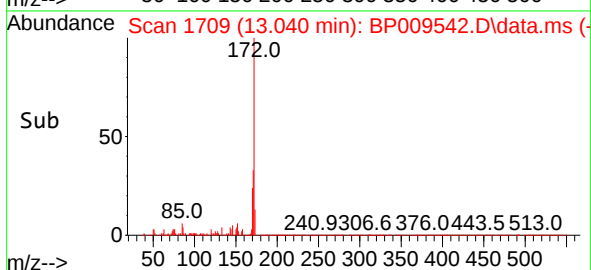
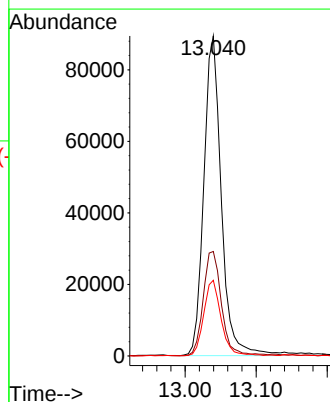
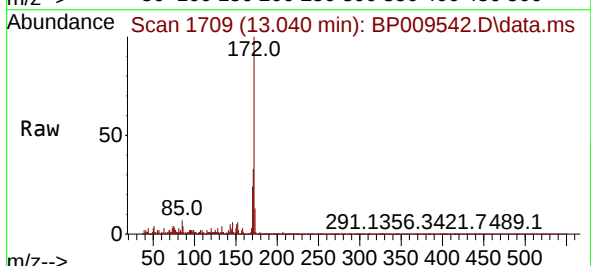
Tgt Ion:172 Resp: 153386

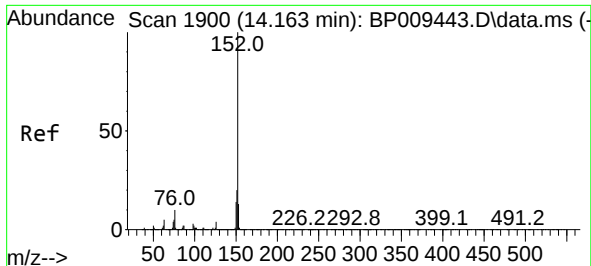
Ion Ratio Lower Upper

172 100

171 32.6 28.0 42.0

170 23.7 18.6 27.8

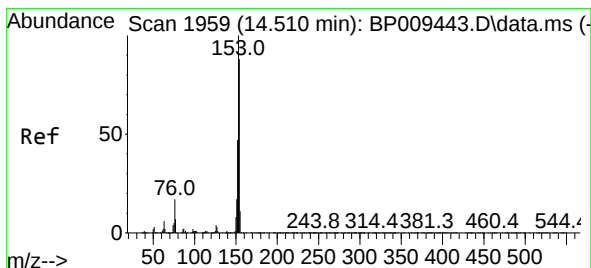
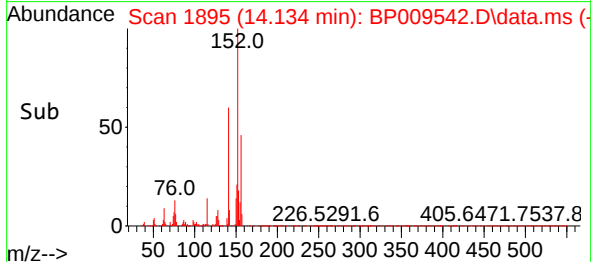
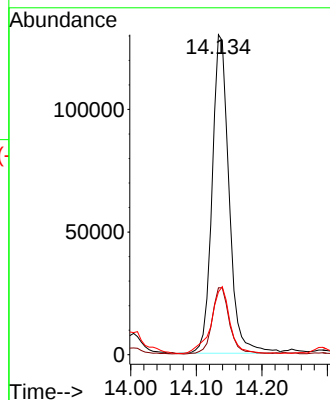
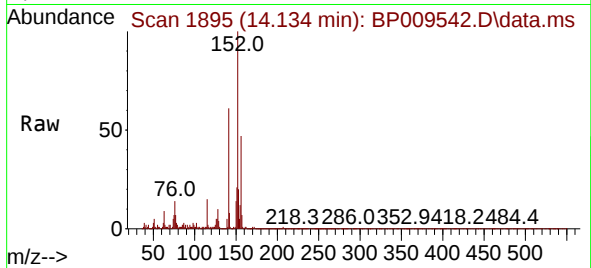




#49
Acenaphthylene
Concen: 3.582 ng
RT: 14.134 min Scan# 1895
Delta R.T. -0.017 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

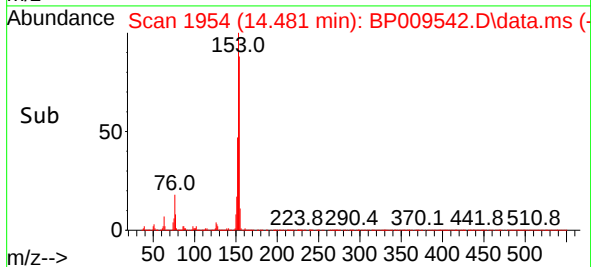
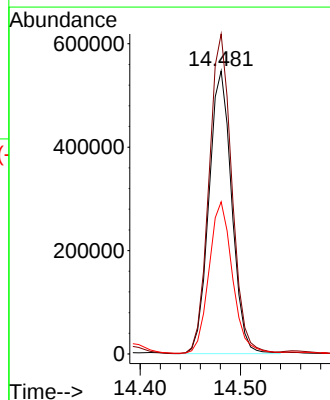
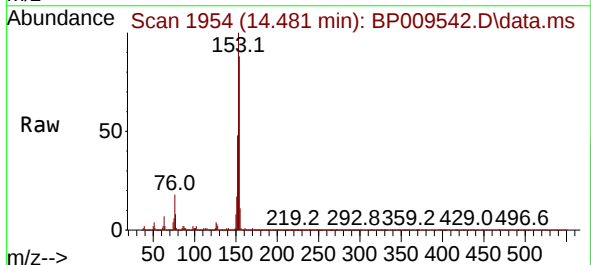
Instrument :
BNA_P
ClientSampleId :
SB-13-20220316-16.0-17.0DL

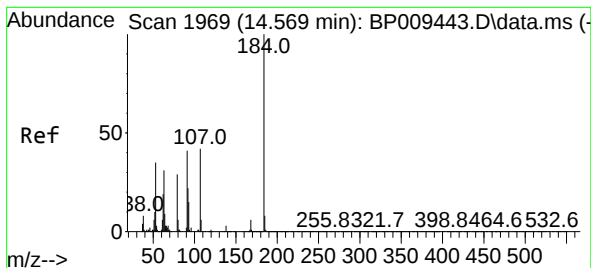
Tgt Ion:152 Resp: 233031
Ion Ratio Lower Upper
152 100
151 20.9 15.9 23.9
153 19.6 10.7 16.1#



#52
Acenaphthene
Concen: 22.237 ng
RT: 14.481 min Scan# 1954
Delta R.T. -0.017 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

Tgt Ion:154 Resp: 864120
Ion Ratio Lower Upper
154 100
153 113.1 90.2 135.4
152 53.7 42.7 64.1

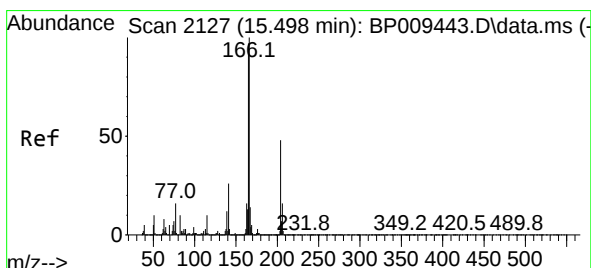
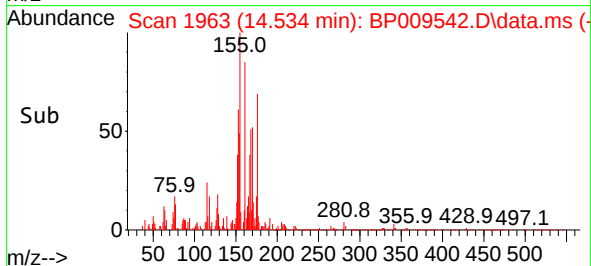
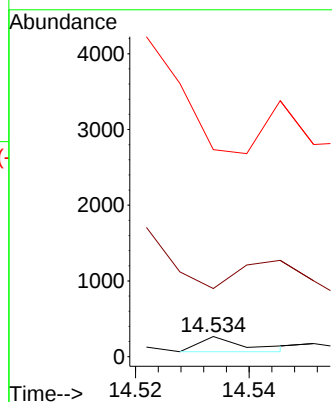
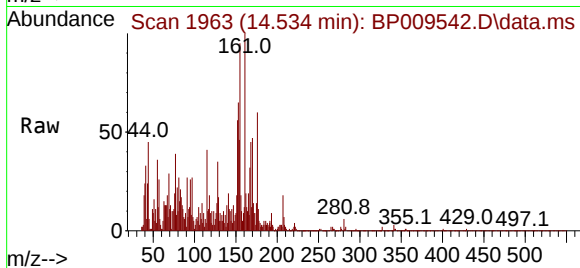




#54
2,4-Dinitrophenol
Concen: 4.548 ng
RT: 14.534 min Scan# 1963
Delta R.T. -0.029 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

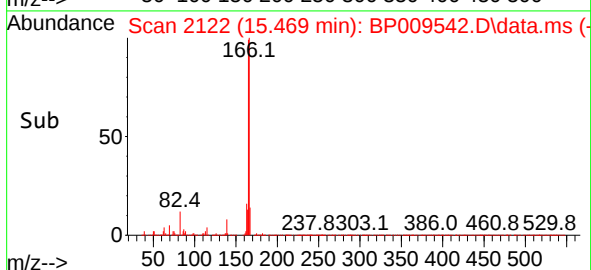
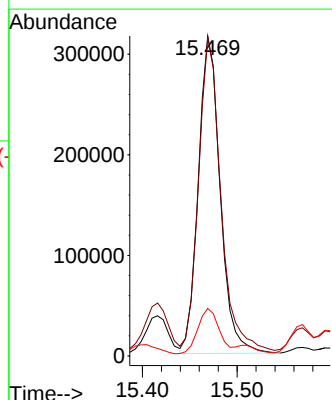
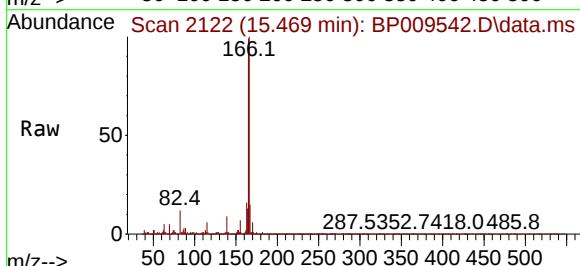
Instrument :
BNA_P
ClientSampleId :
SB-13-20220316-16.0-17.0DL

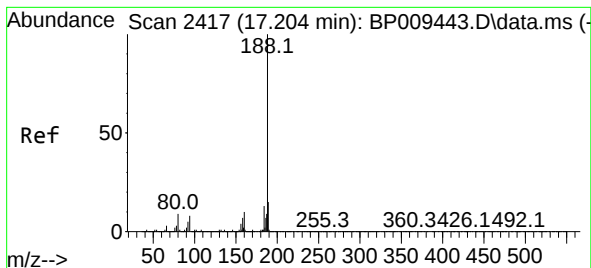
Tgt Ion:184 Resp: 118
Ion Ratio Lower Upper
184 100
63 338.3 46.3 69.5#
154 1027.8 45.8 68.6#



#58
Fluorene
Concen: 9.872 ng
RT: 15.469 min Scan# 2122
Delta R.T. -0.017 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

Tgt Ion:166 Resp: 506844
Ion Ratio Lower Upper
166 100
165 99.4 79.2 118.8
167 14.9 10.7 16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.181 min Scan# 2413

Delta R.T. -0.017 min

Lab File: BP009542.D

Acq: 24 Mar 2022 22:23

Instrument :

BNA_P

ClientSampleId :

SB-13-20220316-16.0-17.0DL

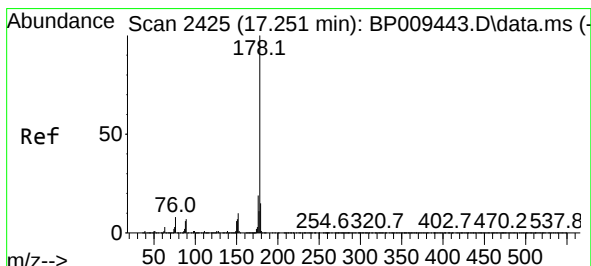
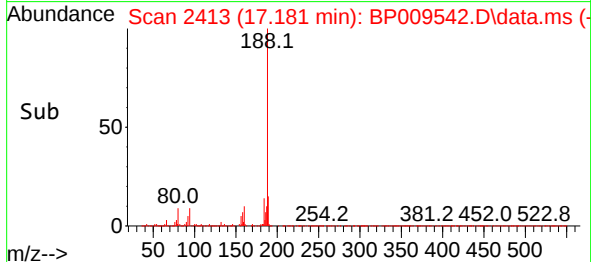
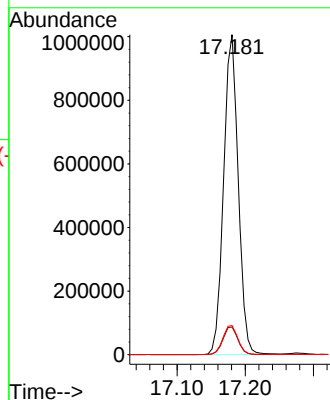
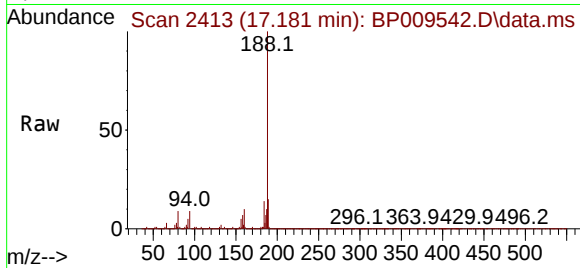
Tgt Ion:188 Resp: 1500880

Ion Ratio Lower Upper

188 100

94 8.6 7.9 11.9

80 9.1 8.8 13.2



#71

Phenanthrene

Concen: 36.026 ng

RT: 17.222 min Scan# 2420

Delta R.T. -0.017 min

Lab File: BP009542.D

Acq: 24 Mar 2022 22:23

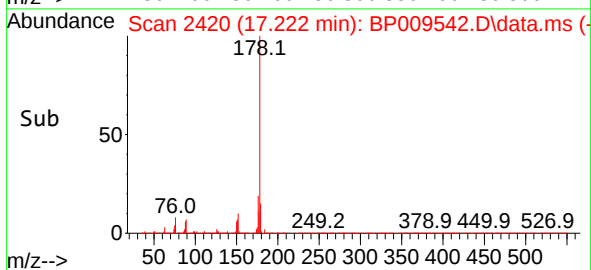
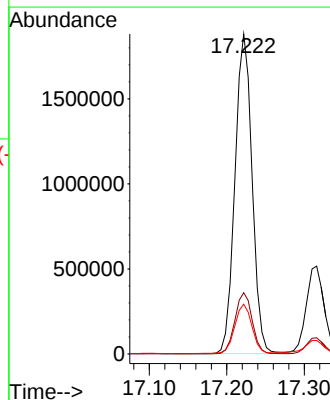
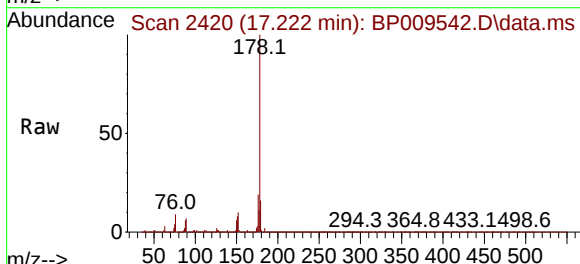
Tgt Ion:178 Resp: 2894395

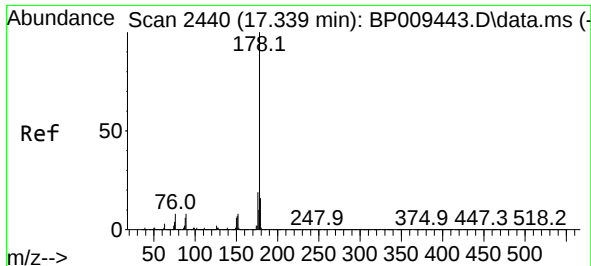
Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.2

179 15.5 12.3 18.5

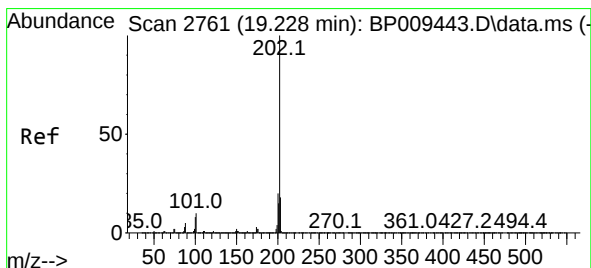
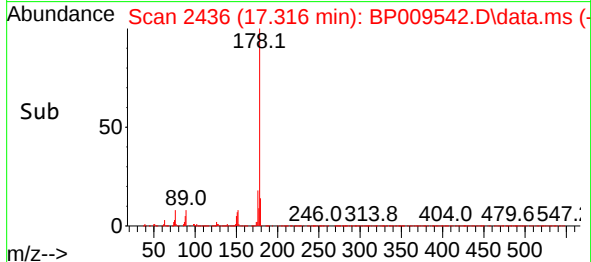
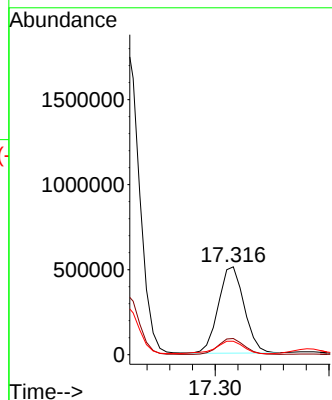
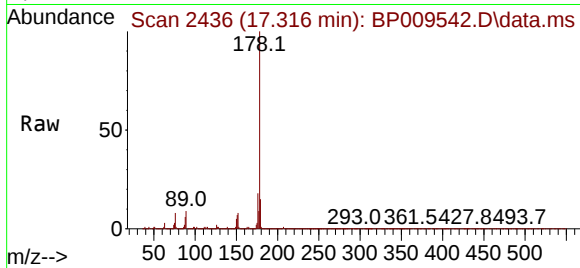




#72
 Anthracene
 Concen: 10.135 ng
 RT: 17.316 min Scan# 2440
 Delta R.T. -0.017 min
 Lab File: BP009542.D
 Acq: 24 Mar 2022 22:23

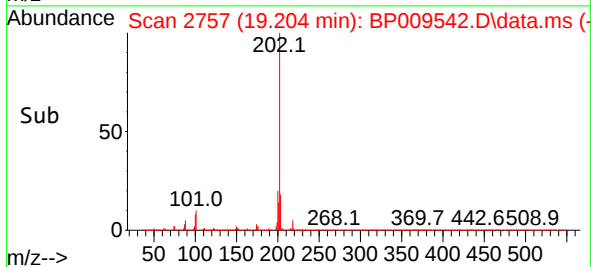
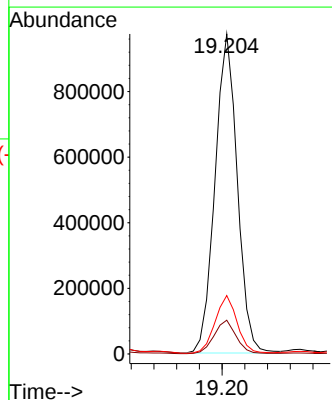
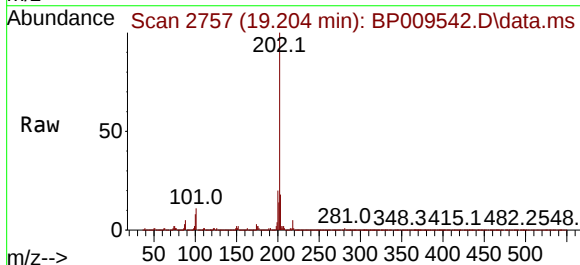
Instrument :
 BNA_P
 ClientSampleId :
 SB-13-20220316-16.0-17.0DL

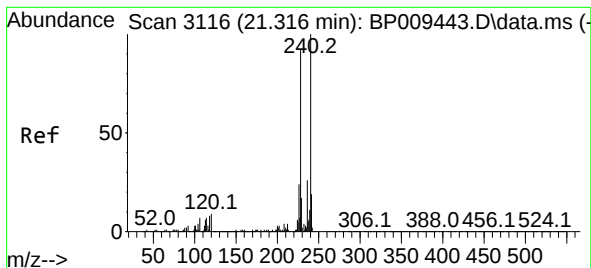
Tgt Ion:178 Resp: 803979
 Ion Ratio Lower Upper
 178 100
 176 18.4 14.8 22.2
 179 15.3 12.2 18.4



#75
 Fluoranthene
 Concen: 13.621 ng
 RT: 19.204 min Scan# 2757
 Delta R.T. -0.017 min
 Lab File: BP009542.D
 Acq: 24 Mar 2022 22:23

Tgt Ion:202 Resp: 1324838
 Ion Ratio Lower Upper
 202 100
 101 10.6 0.0 31.5
 203 18.3 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.292 min Scan# 3116

Delta R.T. -0.023 min

Lab File: BP009542.D

Acq: 24 Mar 2022 22:23

Instrument :

BNA_P

ClientSampleId :

SB-13-20220316-16.0-17.0DL

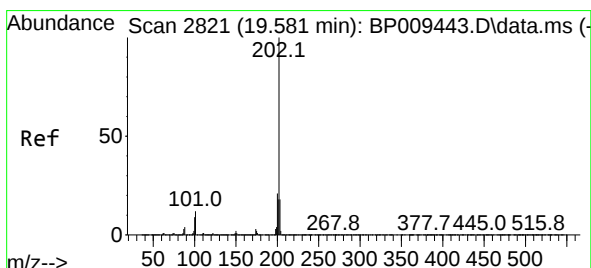
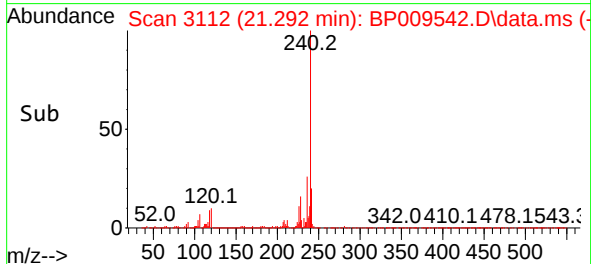
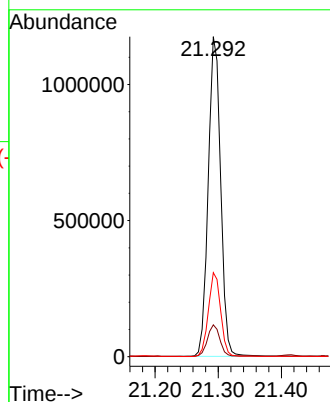
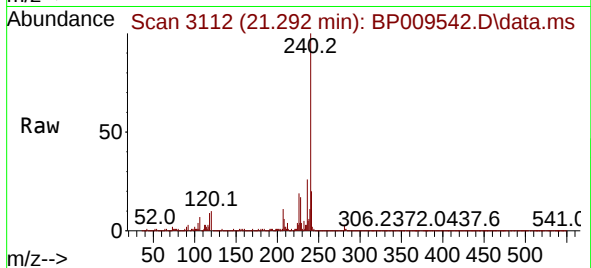
Tgt Ion:240 Resp: 1601096

Ion Ratio Lower Upper

240 100

120 9.9 9.0 13.4

236 26.3 20.6 30.8



#78

Pyrene

Concen: 20.655 ng

RT: 19.557 min Scan# 2817

Delta R.T. -0.017 min

Lab File: BP009542.D

Acq: 24 Mar 2022 22:23

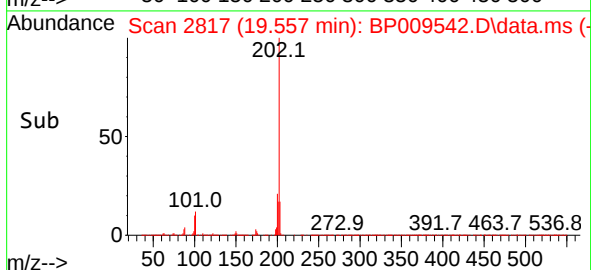
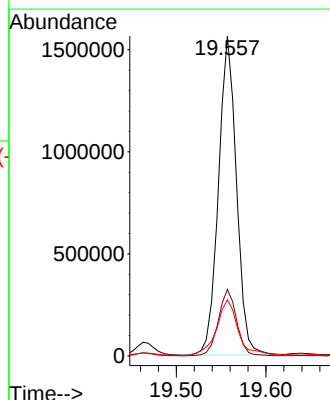
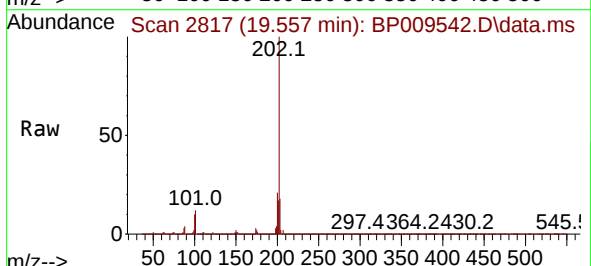
Tgt Ion:202 Resp: 2179182

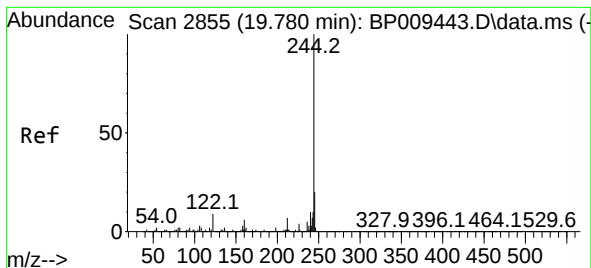
Ion Ratio Lower Upper

202 100

200 20.8 16.8 25.2

203 17.5 14.2 21.4





#79

Terphenyl-d14

Concen: 2.813 ng

RT: 19.757 min Scan# 21

Delta R.T. -0.023 min

Lab File: BP009542.D

Acq: 24 Mar 2022 22:23

Instrument :

BNA_P

ClientSampleId :

SB-13-20220316-16.0-17.0DL

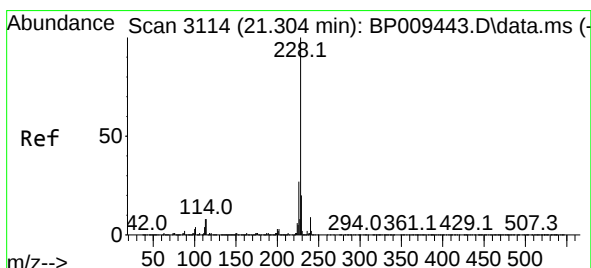
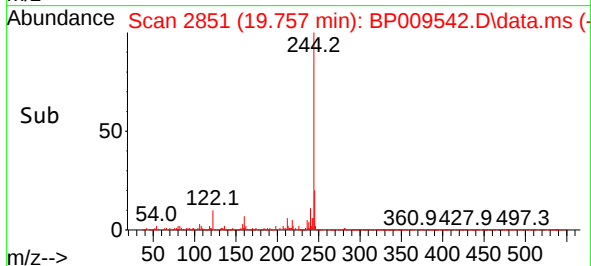
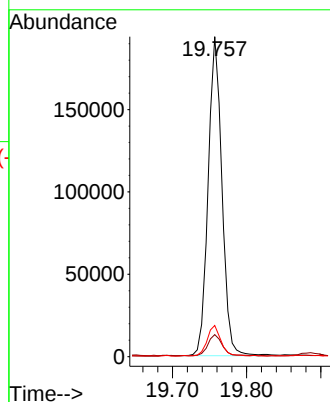
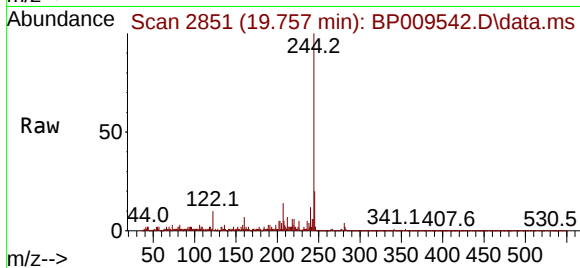
Tgt Ion:244 Resp: 250911

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.6

122 9.7 8.3 12.5



#81

Benzo(a)anthracene

Concen: 6.267 ng

RT: 21.327 min Scan# 3118

Delta R.T. 0.030 min

Lab File: BP009542.D

Acq: 24 Mar 2022 22:23

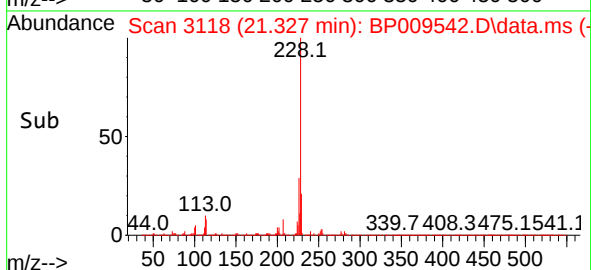
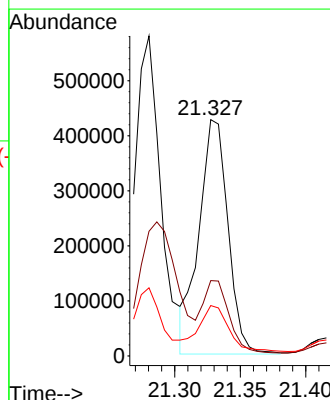
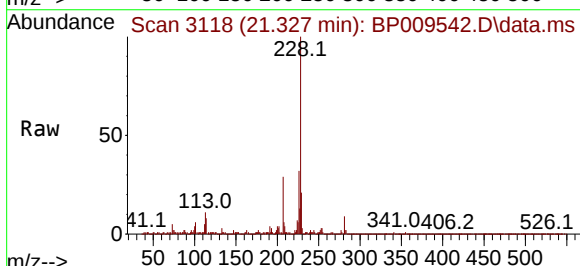
Tgt Ion:228 Resp: 659182

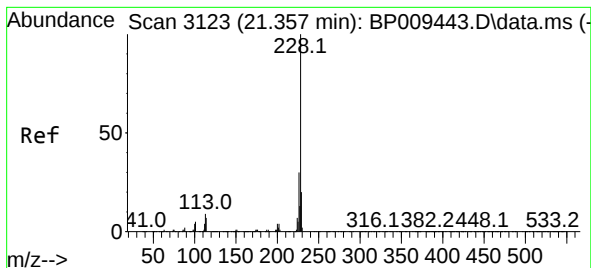
Ion Ratio Lower Upper

228 100

226 31.9 22.0 33.0

229 21.3 16.1 24.1





#83

Chrysene

Concen: 6.618 ng

RT: 21.327 min Scan# 31

Delta R.T. -0.023 min

Lab File: BP009542.D

Acq: 24 Mar 2022 22:23

Instrument :

BNA_P

ClientSampleId :

SB-13-20220316-16.0-17.0DL

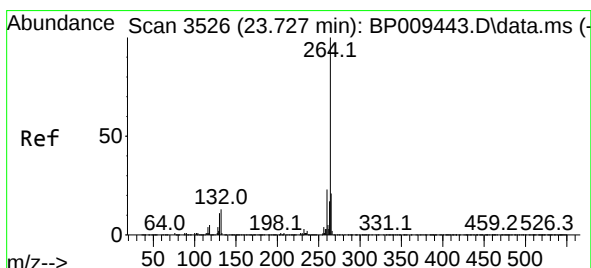
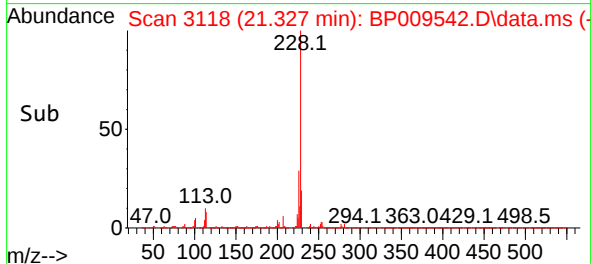
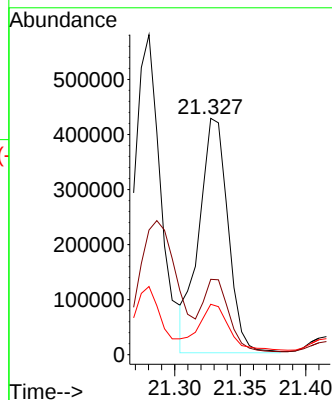
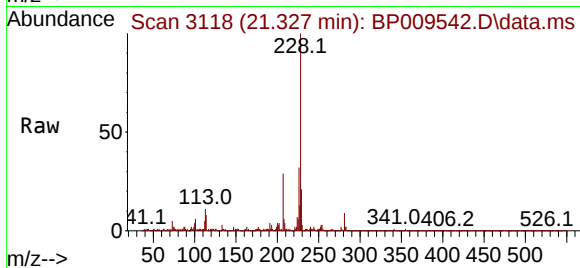
Tgt Ion:228 Resp: 659182

Ion Ratio Lower Upper

228 100

226 31.9 24.2 36.2

229 21.3 16.1 24.1



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.686 min Scan# 3519

Delta R.T. -0.029 min

Lab File: BP009542.D

Acq: 24 Mar 2022 22:23

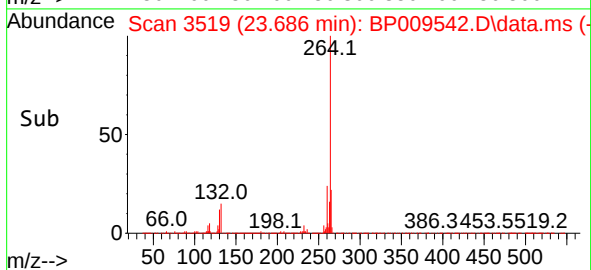
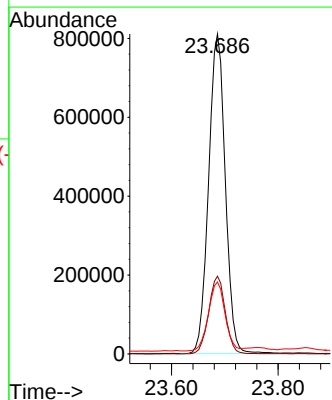
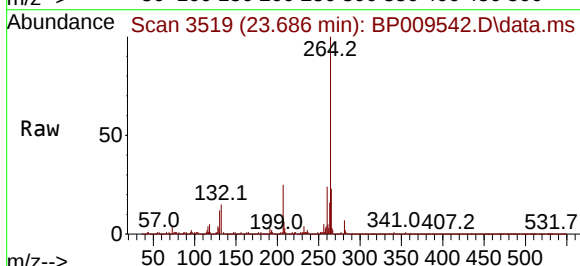
Tgt Ion:264 Resp: 1765228

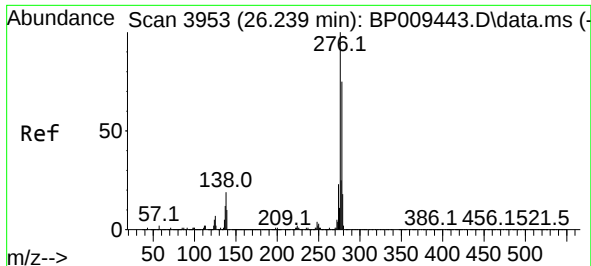
Ion Ratio Lower Upper

264 100

260 24.3 19.4 29.0

265 22.5 17.2 25.8

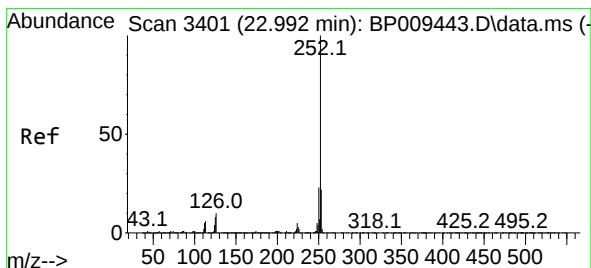
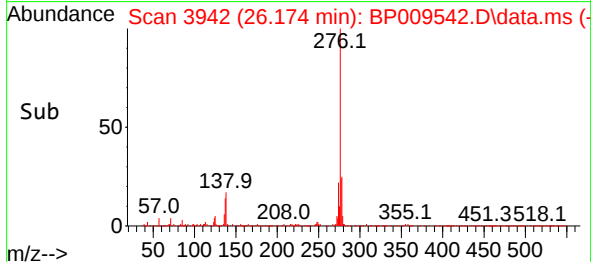
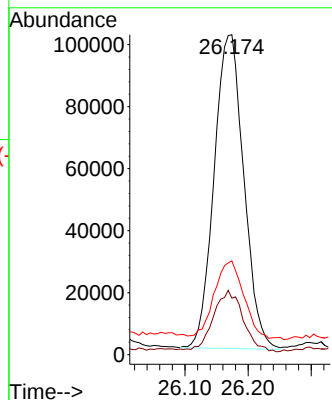
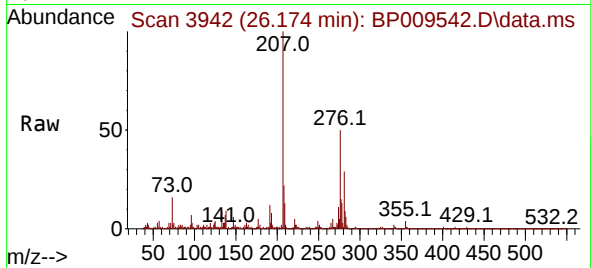




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.471 ng
 RT: 26.174 min Scan# 3942
 Delta R.T. -0.053 min
 Lab File: BP009542.D
 Acq: 24 Mar 2022 22:23

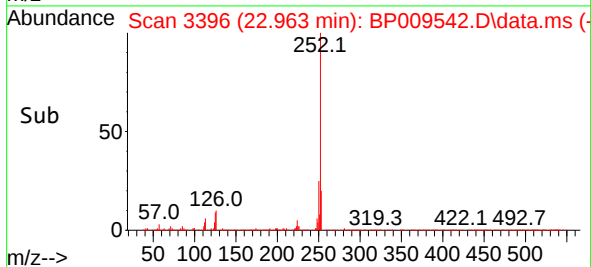
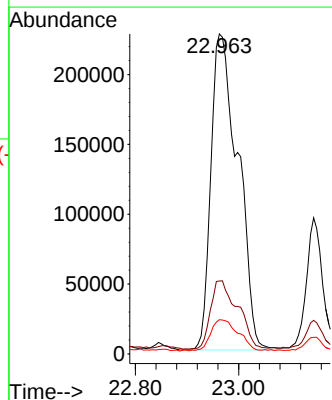
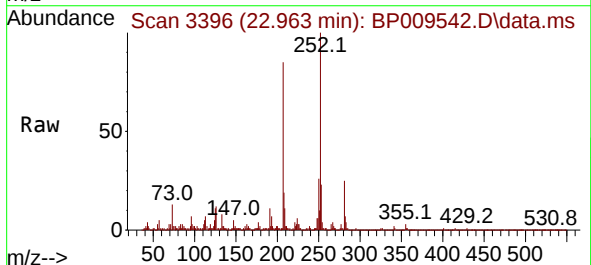
Instrument :
 BNA_P
 ClientSampleId :
 SB-13-20220316-16.0-17.0DL

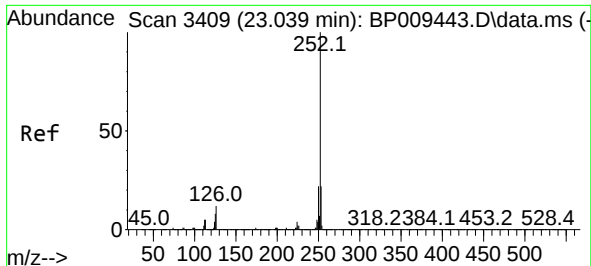
Tgt Ion:276 Resp: 330893
 Ion Ratio Lower Upper
 276 100
 138 19.7 20.5 30.7#
 277 25.7 20.4 30.6



#88
 Benzo(b)fluoranthene
 Concen: 7.818 ng
 RT: 22.963 min Scan# 3396
 Delta R.T. -0.023 min
 Lab File: BP009542.D
 Acq: 24 Mar 2022 22:23

Tgt Ion:252 Resp: 823896
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.8 26.8
 125 10.7 8.1 12.1

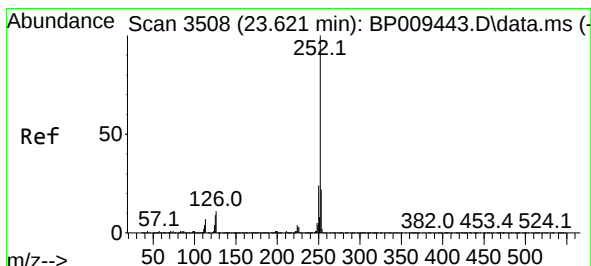
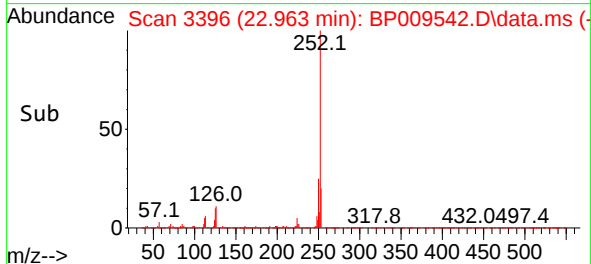
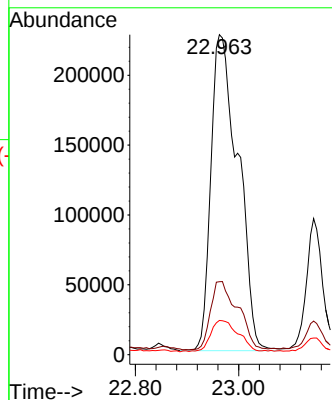
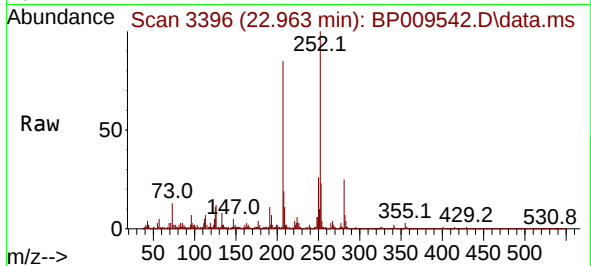




#89
Benzo(k)fluoranthene
Concen: 7.985 ng
RT: 22.963 min Scan# 31
Delta R.T. -0.076 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

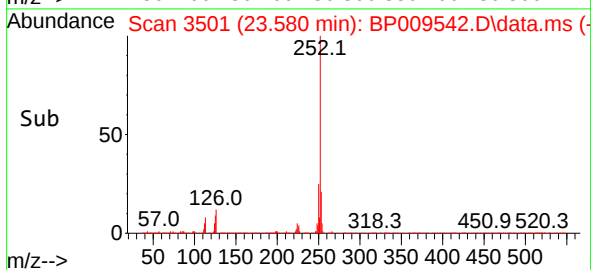
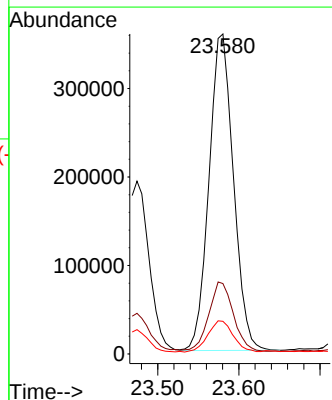
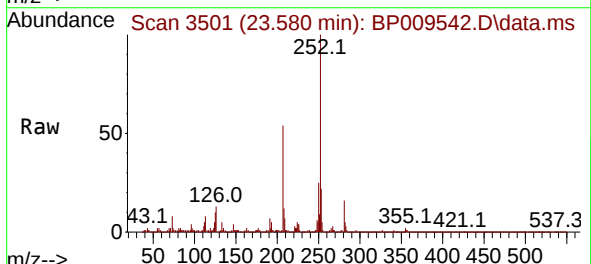
Instrument :
BNA_P
ClientSampleId :
SB-13-20220316-16.0-17.0DL

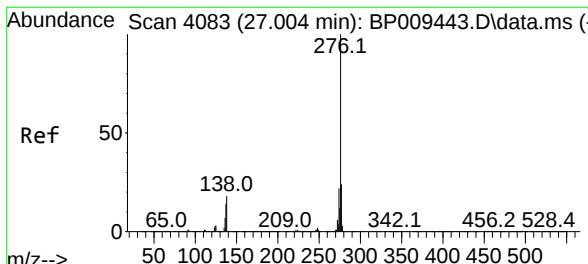
Tgt Ion:252 Resp: 823896
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 10.7 8.3 12.5



#90
Benzo(a)pyrene
Concen: 8.304 ng
RT: 23.580 min Scan# 3501
Delta R.T. -0.029 min
Lab File: BP009542.D
Acq: 24 Mar 2022 22:23

Tgt Ion:252 Resp: 748673
Ion Ratio Lower Upper
252 100
253 22.0 17.8 26.6
125 10.2 9.3 13.9





#92
 Benzo(g,h,i)perylene
 Concen: 3.481 ng
 RT: 26.927 min Scan# 4083
 Delta R.T. -0.059 min
 Lab File: BP009542.D
 Acq: 24 Mar 2022 22:23

Instrument :
 BNA_P
 ClientSampleId :
 SB-13-20220316-16.0-17.0DL

Tgt Ion:276 Resp: 382222

Ion	Ratio	Lower	Upper
276	100		
277	28.3	19.2	28.8
138	21.2	18.0	27.0

